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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/782,806	02/23/2004	Jan Roelof van der Meulen	1203.080	5460
75	. 12/08/2006		EXAMINER	
Liniak, Berena	ato & White	QIN, JIANCHUN		
Ste. 240 6550 Rock Spring Drive		÷.	ART UNIT PAPER NUMBE	
Bethesda, MD			2837	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Commence	10/782,806	MEULEN, JAN ROELOF VAN DER					
Office Action Summary	Examiner	Art Unit					
	Jianchun Qin	2837					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence ad	ddress				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (36(a)). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	I. lely filed the mailing date of this of D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 12 C	October 2006.						
·= · ·	s action is non-final.						
<i>,</i> —	-						
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims			•				
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, - , , , , , , , , , , , , , , , ,	4) Claim(s) 1-8 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>1-8</u> is/are rejected.							
7) Claim(s) is/are objected to.	a alastian rasuiranant						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applicationity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National	Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite					

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen (U.S. Pat. No. 3893363) in view of DeArmas (U.S. Pat. No. 4362080).

Regarding claim 1, Cohen teaches a set of clave blocks (18, 20, or 22, 24) each comprising a rigid body made of solid material (col. 2, lines 40-44), said body having an open cavity therewithin defined solely by said solid material (inherent to temple blocks 18, 20, or cowbells 22, 24).

Cohen does not mention expressly: said bodies having substantially equal exterior dimensions and different volumes of said open cavities therewithin provided to generate musical tones of a variety of pitches.

DeArmas teaches a set of clave blocks, including bodies having open cavities, and substantially equal exterior dimensions and different volumes of said open cavities therewithin provided to generate musical tones of a variety of pitches (col. 3, lines 41-43 and lines 47-49).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Cohen to have clave block bodies with

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equal exterior dimensions but different volumes of the open cavities, as taught by DeArmas, in order to provide a set of similar clave blocks for generating musical tones of a variety of pitches (DeArmas, col. 3, lines 47-49).

Regarding claim 2 and 3, Cohen in view of DeArmas teach the percussion musical instrument that includes the subject matter discussed above except: said set includes three clave blocks including a low pitch clave block provided to generate a low pitch tone, a medium pitch clave block provided to generate a medium pitch tone and a high pitch clave block provided to generate a high pitch tone.

However, in view of the teachings of Cohen and DeArmas, it would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the combination of Cohen and DeArmas to make three clave blocks corresponding to three different favorable values of pitch tone, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Regarding claims 4 and 8, Cohen does not mention expressly: said body of at least one of said clave blocks has a mounting ring; said cavities include openings having different perimeters.

DeArmas teaches: said body of at least one of said clave blocks has a mounting ring (16); said cavities include openings having different perimeters (col. 3, lines 47-49).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Cohen to have clave block bodies with equal exterior dimensions but different volumes of the open cavities, as taught by

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DeArmas, in order to provide a set of similar clave blocks that are mounted together for generating musical tones of a variety of pitches (DeArmas, col. 3, lines 47-49).

3. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen in view of DeArmas, as applied to claim 1 above, and further in view of Cohen et al. (4,898,061).

Cohen in view of DeArmas teach the percussion instrument including the subject matter discussed above except: said body of each of said clave blocks is made of plastic material; said body of each of said clave blocks is made by injection molding process.

Cohen et al. disclose a clave block (10), including: a rigid body made of a solid material (col. 3, lines 19-25), said body of each of said clave blocks is made of plastic material (col. 2, lines 22-25); said body of each of said clave blocks is made by injection molding process (col. 2, lines 58-59).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teaching of Cohen et al. into the combination of Cohen and DeArmas in order to provide a cost-effective mechanism for making a plurality of clave blocks for reproducing the sound of a wood block instrument without using wood (col. 2, lines 20-25, lines 58-59).

4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen in view of DeArmas, as applied to claim 1 above, and further in view of Shimoda et al. (4,779,507).

Cohen in view of DeArmas teach the percussion instrument including the subject matter discussed above except: said bodies of different volumes having different thickness of said solid material.

Shimoda et al. teach a percussive musical instrument such as a wood block, including three plates (21, 22 and 13) of different volumes having different thickness of said solid material, wherein when the plates are struck musical tones of different pitches are generated (cols. 2-3, lines 62-45).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teaching of Shimoda et al. into the combination of Cohen and DeArmas in order to provide a cost-effective mechanism for making a plurality of clave blocks that can generate musical tones of different pitches (Shimoda et al., col. 3, lines 32-34).

Response to Arguments

5. Applicant's arguments received 10/12/2006 with respect to claims 1-8 have been considered but are most in view of the new ground(s) of rejection.

Claims 1-8 are rejected as new prior art references (U.S. Pat. No. 3893363 to Cohen, U.S. Pat. No. 4362080 to DeArmas) have been found to teach, together with other cited references, the claimed invention. Detailed response is given in sections 2-4 as set forth above in this Office Action.

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Contact Information

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jianchun Qin whose telephone number is (571) 272-5981. The examiner can normally be reached on 8am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lincoln Donovan can be reached on (571) 272-1988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jianchun Qin Examiner Art Unit 2837

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